## INTERNATIONAL SEARCH REPORT

International application No.

|   | INTERNATIONAL SEARCH REPORT   |   | חכש / זחס               | 004/010157   |
|---|---|---|-------------------------|--|
|   | ATION OF CURIECT MATTER   | PCT/JP2004/018157   |                         |  |
| A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> B23K26/06   |   |   |                         |  |
|   |   |   |                         |  |
| According to International Patent Classification (IPC) or to both national classification and IPC   |   |   |                         |  |
| B. FIELDS SEARCHED  |   |   |                         |  |
| Minimum documentation searched (classification system followed by classification symbols)   |   |   |                         |  |
| Int.Cl <sup>7</sup> B23K26/06, H01S3/042, H01S5/022   |   |   |                         |  |
|   |   |   | •                       |  |
|   |   |   |                         |  |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005 |   |   |                         |  |
| Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005  |   |   |                         |  |
| Electronic data b   | pase consulted during the international search (name of d   | lata base and, where p  | racticable, search te   | rms used)  |
|   |   |   |                         |  |
|   |   |   |                         |  |
| C. DOCUMEN  | NTS CONSIDERED TO BE RELEVANT   | <del></del>   |                         |  |
| Category*   | Citation of document, with indication, where appropriate, of the relevant passages                        |   |                         | Relevant to claim No.                                |
| Y   | JP 2002-118319 A (Litton Systems, Inc.),  |   |                         | 1-3  |
|   | 19 April, 2002 (19.04.02),  |   |                         |  |
|   | Detailed Explanation of the Invention; Par. Nos. [0033] to [0047]; Figs. 1 to 4 & EP 1180836 A2           |   |                         |  |
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| .,  | TD 2002 150215 D (Minarki Ma  | -b C \  |                         | 1-3  |
| Y   | JP 2003-158315 A (Miyachi Technos Corp.), 30 May, 2003 (30.05.03), Detailed Explanation of the Invention; |   |                         | 1-3  |
|   |   |   |                         |  |
|   | Par. Nos. [0004], [0008], [0015] to [0050];   |   |                         |  |
|   | Figs. 1 to 6 (Family: none)   |   |                         |  |
|   | •   |   |                         |  |
| Y   | <pre>Y     JP 5-245675 A (Hoya Corp.), 24 September, 1993 (24.09.93), Full text; Figs. 1 to 5</pre>       |   |                         | 3  |
|   |   |   |                         |  |
|   | (Family: none)  | •   |                         |  |
| ļ   | ·   |   |                         |  |
| Further do  | cuments are listed in the continuation of Box C.  | See patent far  | nily annex              | · · · · · · · · · · · · · · · · · · ·                |
|   |   |   |                         |  |
| "A" document defining the general state of the art which is not considered date and not in conflict with the application but cited to understand  |   |   |                         |  |
|   | icular relevance<br>cation or patent but published on or after the international                          |   |                         | laimed invention cannot be                           |
| filing date   |   | considered nove   |                         | ered to involve an inventive                         |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other   |   | "Y" document of particular relevance; the claimed invention cannot be |                         |  |
| special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means   |   | combined with o   | ne or more other such   | tep when the document is documents, such combination |
| "P" document published prior to the international filing date but later than the  |   |   | a person skilled in the |  |
| priority date claimed "&" document member of the same patent family   |   |   |                         |  |
| Date of the actual completion of the international search  Date of mailing of the international search rep  |   |   |                         | ch report  |
| 04 Marc   | ch, 2005 (04.03.05)   | 22 March  | , 2005 (22.             | 03.05)   |
|   |   |   |                         |  |
| Name and mailing address of the ISA/ Japanese Patent Office   |   | Authorized officer  |                         |  |

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